

'MIT HIGH' draws wide support

Adhoc student committee presents ideas for project

By Pat Szymanski

Discussion of the problems associated with the possibility of a student-run high school sponsored by MIT drew 250 students and faculty members to the Mezzanine Game Room of the Student Center Tuesday evening.

The purpose of the meeting, as seen by Rich Adelstein '68, main speaker for the ad hoc student committee which called the meeting, was to allow the committee to present some of its ideas and accept suggestions from those interested in the project.

Major problems

The major problems that the committee found were those of finding a building for the school and of finding adequate financial support. However, they felt that these wouldn't present much difficulty once the project becomes established.

Their proposals called for a fully accredited high school to be run at MIT and to be open to any high school student in the Cambridge area. It would be an "equivalence" school, one in which the student could advance at his own rate and not be confined to a four-year system. When fully developed the enrollment would total approximately 300.

Benefits for all

According to the committee, MIT students would benefit from their involvement with the students and would receive academic credit for their efforts. Faculty would benefit through the availability of the school as a testing ground for new educational ideas and methods. And the students would benefit from an educational experience hopefully superior to that found in the present Cambridge system.

The school would try to present its students with a liberal education while offering considerable academic freedom and latitude to both the Faculty and the student body.

Questions brought up

In the open discussion following the initial presentation, the questions of accreditation, physical plant, teacher qualifications, experience and faculty participation were raised. Student interest was high and all those present expressed interest in the founding of the school and in its operation.

Johnson speaks

After he finished explaining these ideas, Adelstein noticed President Howard W. Johnson in the audience and asked him if he might like to say a few words.

Beginning by saying that "we have to get used to big crowds for new ideas at MIT," President Johnson expressed the view that this school would have to have an impact on education in general and not just on a local level. The school would have to be related

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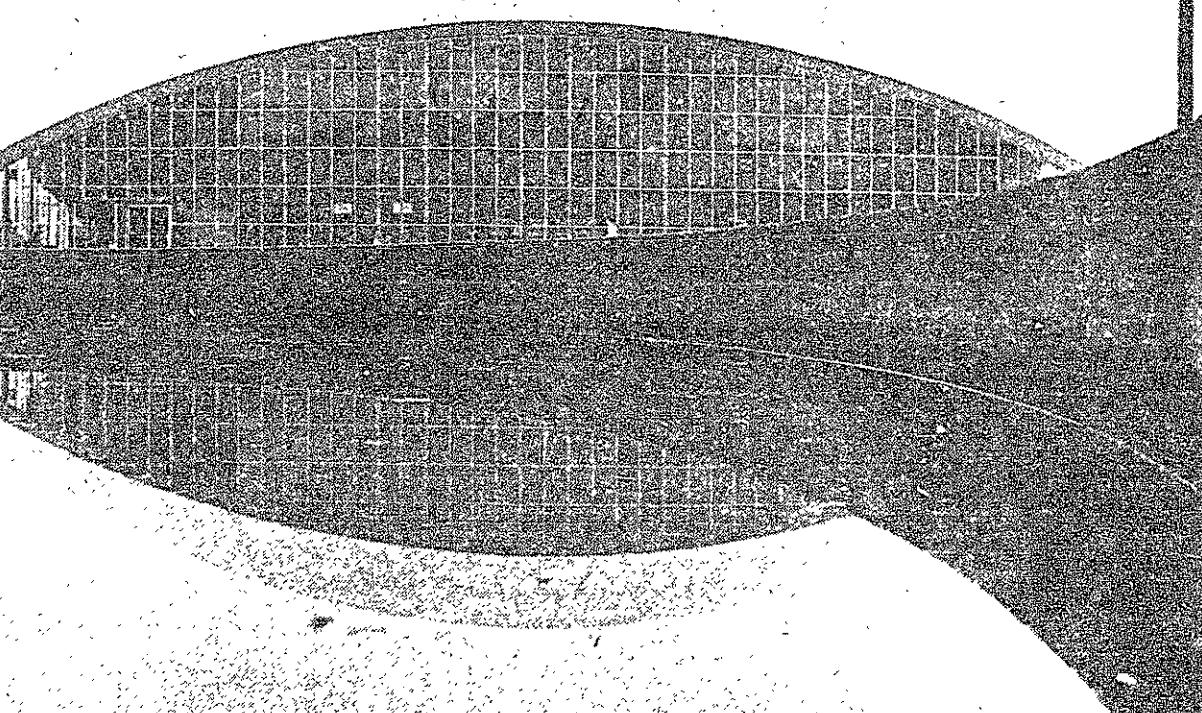
Attendance figures disputed

Dow sit-in effects unclear



Photo by Tim Finin

Upwards of 100 people gathered on the fourth floor of the Ford Building to protest the recruiting by Dow Chemical Co.



Vol. 87, No. 44

Cambridge, Massachusetts, Friday, November 10, 1967

Five Cents

Napalm argued in Kresge Monday

By Steve Carhart

Prompted by the protest against Dow Chemical's recruiting activities on campus, a group of concerned faculty members organized a discussion-debate Monday noon in Kresge entitled

"Napalm, Vietnam, and the University." According to Professor Murray Eden, chairman of the ad hoc Committee for Inquiry

into Social Responsibilities, the fending US presence in Vietnam was Professor Ithiel Pool, an advisor to the US government on Vietnam policy. Professor Pool has spent much time in the villages of South Vietnam. Also present was Max Key, member of the Board of Directors of Dow Chemical, who defended his company, and Dr. Frank Ervin of Harvard Medical School, who has visited hospitals in Vietnam and spoke on napalm from the medical standpoint.

Weekend rush

The idea for the meeting was first conceived in an informal gathering Friday, as the plans of student anti-war groups became apparent. Work on the meeting went ahead at a hectic pace over the weekend, as the committee lined up speakers and facilities.

The speakers at the meeting were chosen to represent all major opinions on the war, though the feeling of the committee is strongly against the war. In addition to Prof. Eden, Professor Philip Morrison spoke against the war. De-

Johnson present

President Howard Johnson opened the discussion with a brief commendation of the organizers and the audience, and commented on the need for more open discussion of public issues. He then

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Blames administrators

Lack of academic freedom lamented by Serge Lang

By John Foran

Professor Serge Lang of Columbia University said in an address Monday night that people such as himself have been forced into areas of university administration by sheer default on the part of administrators. Professor Lang spoke to an informal group of professors, graduate students, and a few undergraduates.

The talk was arranged mainly

through Professor Isadore M. Singer of the Department of Mathematics, who told The Tech that Professor Lang asked to speak here. Prof. Lang has written numerous textbooks and is a member of the Bourbaki, which is composed mostly of French mathematicians.

Secret projects at Columbia

Prof. Lang contends "that university administrators have failed in the exercise of their academic responsibilities" often enough to warrant great disappointment in them." He complained of the entanglements with the government in which universities too often get involved.

At Columbia, Lang said, he inquired about secret projects in which the university was involved. He was told, "There are no projects at Columbia whose existence is classified." He then began delving into cooperative projects between the Columbia department of political science and the Central Intelligence Agency. But by the time he had finished inquiries, the project had been "cut off."

Professor Lang also discussed some topics in a leaflet he has

(Please turn to Page 9)

Johnson reports financial needs

By Paul Johnston

MIT will need 135 million dollars, over the next ten years, for major improvements and developments. President Howard W. Johnson announced the amount, which is expected to come entirely from private funds, yesterday.

It is the largest goal ever aimed at by MIT and was set after a year long study of the Institute's capital needs over the next decade.

President's "Report"

The need for funds was disclosed by President Johnson in his annual "Report of the President" for the year that ended June 30. The report, Johnson's first since assuming the presidency July 1, 1967, dealt with MIT's commitment to the many fields of human endeavor, and its desire to strengthen itself academically, to continue to stay on the frontiers of these fields.

The 135 million dollars, Johnson said, would come from private funds, for example, the ever growing Alumni Fund, and from private foundations and corporations. The sum represents approximately half of the total of private gifts and grants MIT will need over the next decade for both capital and operational purposes, Johnson said.

Of the total, President Johnson reports, 14 million dollars is to be spent on a new electrical engineering and electronics complex. Another 14 million dollars will be devoted to faculty development, including the establishment of endowed professorships. 6.5 million dollars will be used for new student residences and the improvement of existing dormitories, and two million dollars will be put into student aid.

Johnson gave special emphasis to the

need for the "vigorous strengthening (of) the enduring twin pillars of MIT, engineering and science." MIT has raised ten million dollars for the chemistry program, and construction of the Camille Dreyfus Building has begun.

Need new engineering

Johnson also stated that there is a commitment to engineering. "Most people, inside and outside MIT take strong engineering for granted," he said. "We dare not. First positions are precarious positions because there is no place to go but down, and standings in education are no exception. . . . In almost every field of engineering we ponder the question of how to continue to make old fields vibrantly new fields, but still bearing on the fundamental problems of engineering rather than science."

(Please turn to page 5)



Come gather 'round people
Wherever you roam
And admit that the waters
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Bob Dylan

To communicate is the beginning of understanding



Wadleigh praises conduct in Dow protest

(Continued from Page 1)

Captain Norman Sidney of the Campus Patrol. Harrington added that he was most impressed by the MIT coed who organized a clean-up crew for the hallway in come. He added that, as far as he knew, Dow representatives

would return in the Spring, as planned. Dean Wadleigh added that the policy of free access to employment information would be continued. He left room, however, for a complete review of the Placement Office operation, which he says has never been reviewed as a whole before.

Abe Igelfeld '69, of MITSDS, said that he expected no change in policy from this action alone. He added, however, that a Faculty-Student Committee was being organized which would "investigate" the situation, and "make demands" of the administration before the year is out. He added that he felt that the petition currently being circulated by SDS was more to stimulate discussion than influence the Institute. He wasn't sure what effect any petition could have on MIT policy.

Two petitions are currently being circulated, one sponsored by SDS and one by Young Americans for Freedom.

The YAF petition seeks support for the present "free access to information" policy currently carried out by the employment office. This policy, Harrington admits, has grown rather haphazardly during this history of the Placement Office. Dean Wadleigh describes the present operation as an extension of the faculty counseling, a sort of counseling for graduates.

Kresge meeting

Wadleigh added that he felt the best thing to come out of the protest was the meeting in Kresge. He expressed hope that this would be the first in a series of efforts to bring dissenting views to campus. He said that he had hoped the meeting would be entitled "An Inquiry into Social Responsibilities—I" indicating that the effort was not the last.

Estimates disagree

Meanwhile, controversy over the details of the protest in the Ford Building continues. Estimates of the crowd there vary, depending on who is asked. Both the Boston Globe and the Boston Herald estimated the crowd at about 100, while Harrington gives 150 as his count.

Igelfeld says, however, that he counted as many as 250 people during the afternoon part of the sit-in, and that there were more

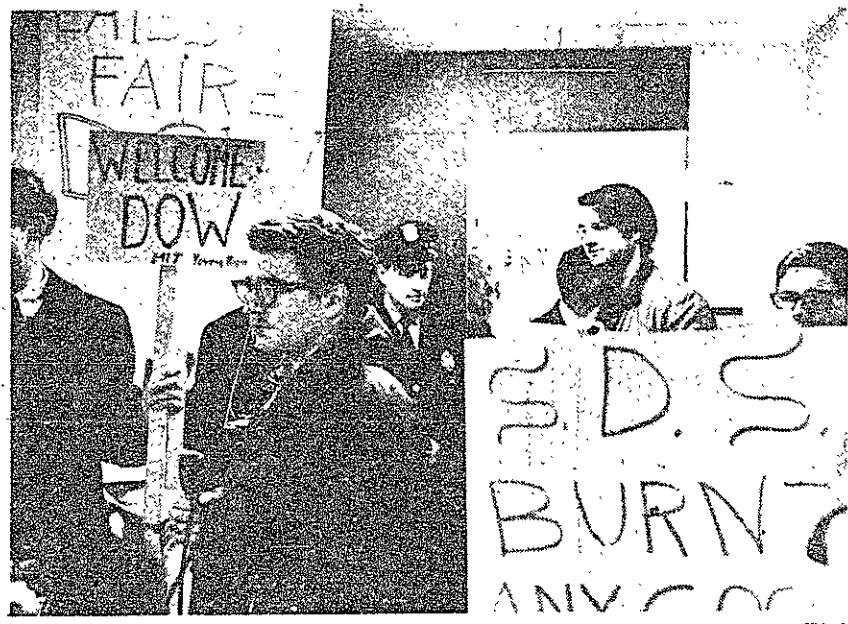


Photo by Tim Finin

Counter demonstrators from the Young Americans for Freedom picketed Monday in favor of allowing Dow Chemical Co. to recruit on campus.

than 150 present throughout most of the day.

Estimates of the number of MIT students participating range from 60% on up. The general consensus seems to be that most of the participants were MIT related, except for some Wellesley girls (variously numbered as 4, 6, 10, or a bus-load) who were also present.

2500 at Kresge

The Campus Patrol also estimates the crowd at Kresge for the noon time meeting to have been about 2500, the largest crowd the patrol has ever had to handle at the auditorium. Captain Sidney says that he was gratified that he did not need to "invite" the municipal police to either the E19 demonstration or the Kresge meeting.

Spokesmen for YAF and YR were unavailable for comment, but their demonstrators apparently numbered about 15. Apparently some of these, or at least some of those signing the petition there, were members of the MITCEWV.

Who saw Dow?

Just who saw Dow is a matter of controversy between SDS and the Placement Office. Although the demonstrators claim to have blocked some interviews by inserting their own members in the queue, Placement Office records show that seven out of 19 interviewees Monday were protestors, while on Tuesday, when there was no sit-in, only one of 13 could be classified as not genuinely seeking employment information.

SCE continues experiments with multi-hued classroom

By Jack Katz

The walls are a combination of bright red orange, grey green, white, and a mustard yellow. Tables are arranged in small "L" configurations around the room. It has the combination of coffee room and kindergarten class atmosphere.

The room is number 7-102. Its design is the result of last Spring's "Design Your Own Classroom Contest." Final planning and design of the room was done by Maria Kivisild '69 while working this summer for the Planning Office.

SCE experiment

Originally the location of the community housing service, the room was given over last year to

the Student Committee on Environment together with \$5,000 for experimentation on possible improvements in classrooms. SCE initiated the design contest to get a spectrum of ideas.

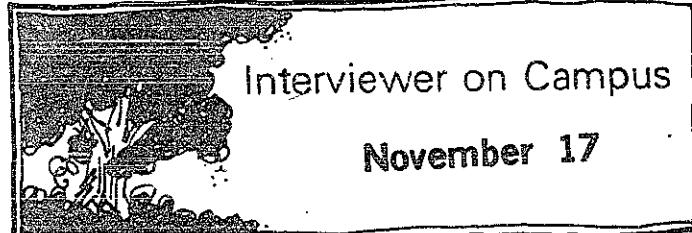
Miss Kivisild was in charge of choosing the best design and fitting it in with the budget. No single design was economical enough, so she put together a composite design which she helped install over the summer. Final completion occurred this week when the new furniture arrived.

Classes in Courses I, V, VI, XIII, and XVI use the room. This is to elicit criticism from a large cross section of students and teachers. One student stated that he thought more should have been done (such as second level work). He agreed though that it was a pleasing change from the rest of the Institute.

Third stage in four

Robert Simha, planning officer, states that the room is the third in a four-stage program to draw comment and criticism from students concerning what they think a classroom should or shouldn't have. The first stage was to develop the contest to have people articulate concrete suggestions. The second stage was the evaluation of all contest suggestions. A two-semester study will be the fourth stage in the effort to find what are the important factors for change in Institute classrooms.

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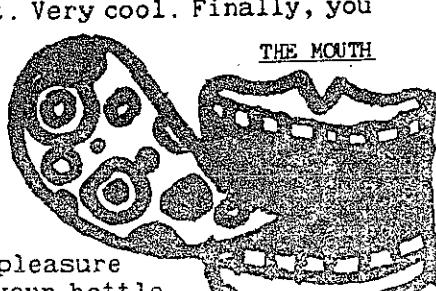
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But what about the olfactory factor, you ask? Well, what do you want for a dime--a five-sense soft drink?

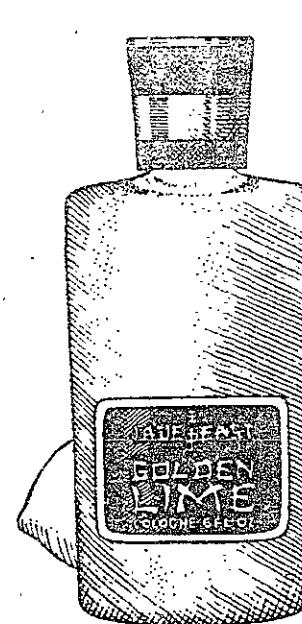


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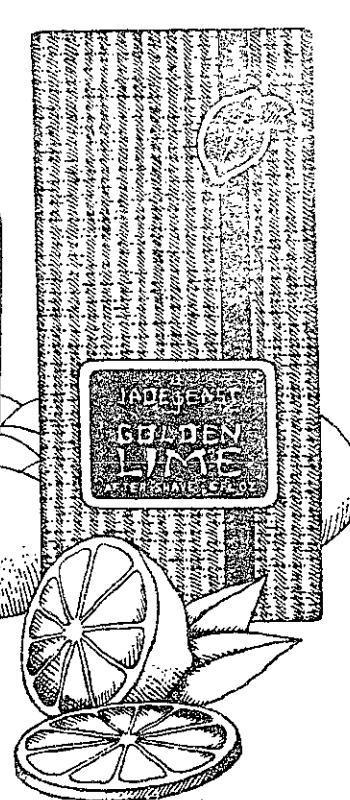
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When dialogue begins

Marshall McLuhan, philosopher of communications media, once said, "Propaganda ends when dialogue begins." While other campuses around the country met demonstrations and resistance with silence or punishment, MIT chose to put McLuhan's words to work.

The colloquium organized by Professor Murray Eden's ad hoc faculty group met the issue of Dow's presence on campus head on. Speakers were chosen to represent both sides of the war, and the first intelligent interchange of ideas concerning the much publicized napalm and the university issue was possible.

Because of the hurried planning necessary to bring about the first discussion, the Dow representative was given ex-

ceedingly short notice, and he was not prepared with any well formulated remarks. This was unfortunate. The suddenness of the meeting probably confused SDS as much, however.

As more and more students and faculty want to verbalize their feelings and questions about the war, the colloquium idea becomes an important innovation. We would wish that the dialogue continue in the future with other Kresge gatherings. Those who believe, however, that the discussions will eliminate demonstrations and protest are mistaken. Demonstrations do serve to focus attention dramatically on the issues, and if attendance were to lag at future gatherings, more dramatic means would most likely be employed.

Letters to The Tech

For the SDS

To the Editor:

It is gratifying to those of us in MTSDS who took part in the non-obstructive sit-in at the recruiter's office to be told that SDS "sponsored" the protest and that it was an "SDS meeting" which decided its tactics. Nevertheless, neither of these two statements is true. Although the original initiative for the action was taken by members of MTSDS, the pamphlets which were distributed were not all written by SDS members, the great majority of people at the meeting on Sunday night were not SDS members, and those who took part in the sit-in were largely not SDS members. We don't mind their being called SDS because we would certainly like to have them, but reporting should be accurate. Which brings me to the second point:

The article in Tuesday's Tech claims that 70 people marched over to E-19. That isn't too far off—I hand-counted 99 myself. However, nowhere in the article is it mentioned that before 12 noon there were close to 200 people (not counting YAFers) sitting in the hallway; nor that by 2 o'clock, after the meeting at Kresge had ended, our ranks were swelled to over 250. This is unprecedented at MIT as is the cooperation of many faculty members in full equality, with students.

It should also be noted that the sit-in lasted from about 10 a.m. to 4 p.m. People came and went but we had more than 150 except for the first half hour and the hour and a half of the meeting in Kresge. At 4 p.m. there were still 250 people there and the crowd did not just dissipate. We decided to have a meeting on Monday night, Nov. 13 (7 p.m. in the Student Center) to decide on further strategy for anti-war work on campus.

MIT has come a long way from the apathy which used to characterize it. The students and faculty are waking up to the fact that the war hurts Americans as well as Vietnamese and that the US should withdraw immediately.

Abe Igelfeld
For the steering committee of the sit-in.

For the YAF

To the Editor:

Young Americans for Freedom have consistently supported the right of individuals to seek employment with whomever they choose without interference from governments, monopolistic labor unions, or any other sector

of society. To do otherwise would be incompatible with YAF's advocacy of laissez faire capitalism and the other concomitants of a free society.

We of MIT YAF are therefore quite concerned by the effects of recent SDS-led demonstrations throughout the country against on-campus recruitment by the Central Intelligence Agency and the Dow Chemical Company. In effect, for the furtherance of their own political aims, Students for a Democratic Society and their associates, are attempting to dictate to college students the conditions under which they may seek employment and for whom they may work.

It does not bode well for American representative democracy if a noisy group of dissidents succeeds in obtaining political objectives through a process of issuing incendiary McCarthy-like statements and engaging in demonstrations reminiscent of the book-burning Hitler Youth. Nor does it speak well of the American college student if he does not object to such irresponsible tactics.

As free men and as citizens of a nation whose third President swore "eternal hostility to all forms of tyranny," we object to such demagoguery whether in government or on the campus. It is possible for reasonable men to differ, but reasonable men will reconcile their differences by reason and not by recourse to mud-slinging and violence.

Mike Shupp '70
David Pearson '68
Mike Throckmorton '70
John Wall '69
R. Nick Ulrich '70
Paul Evans '67

Morality In

To the Editor:

Mr. Max Key, of Dow Chemical Company, claims that his company or at least the managerial staff, feels that it is unable to judge the moral questions involved in such matters as manufacturing napalm for the United States government. In Mr. Key's words: "We are experts in manufacturing chemicals — we are not experts on morality."

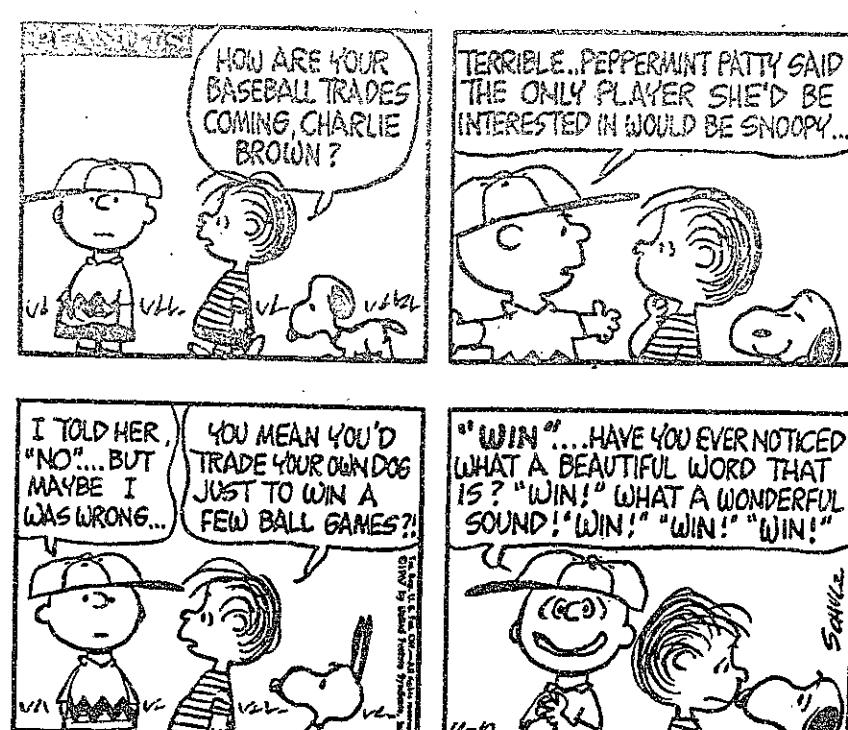
It seems to me that Dow has not really thought the matter out very carefully. If they indeed feel that they are unable to solve the problem, then they should do what they would do with any "insoluble" problem — farm it out to consultants!

Of course, we cannot expect Dow to be proficient at everything; I'm certain that they have consulted experts for other tasks — why not morality experts! Mr. Key, at least, seems to feel that such people exist.

In fact, Dow should look around through the various universities find some little humanities department in need of funds (and what department isn't?) and sit the problem right in their laps! And after they've solved it — satisfactorily, of course — some sort of trend might develop. I can see small firms springing up along Route 128 — Morality, Incorporated; Ethics Unlimited; maybe even Rent-A-Conscience, Inc.

Now that I think about it, maybe I'd better get moving and start one myself — after all, I'm as much a morality expert as the next guy...

Hal R. Varian '69



footnotes*

by Michael Warren

104. A recent advertising campaign for The Wall Street Journal emphasized that the Hamiltonian of the dual control problem is the primal control problem. The analysis is generalized to include variable end points. An economic interpretation of the results is presented and a number of applications are discussed.

Am I ever glad I missed that one.

106. Speculation continues to mount that tuition will be raised for the academic year 1968-69. Although the exact amount is not yet known, it will probably be around \$200, bringing tuition to the neighborhood of \$2100. A formal decision is not expected until spring of 1968.

107. Earlier this week, many Techmen had the startling experience of being accosted by three females loitering in the lobby of Building 7. The girls, all BU freshmen, simply approached every male passerby and said: "Sir—I'm lonely. Talk to me." They then tabulated information about the people they met, dependent upon whether the person had stopped to talk. Those who did were labeled "nice"; others were called "indifferent" or "scornful," etc.

The girls said they were looking for general reactions from different schools, and planned to hit Harvard and Brandeis next. The three had also tried of linear programming where stopping coeds as they passed the dual of the Hamiltonian of by, but without any success.



FIRES OF DISCONTENT

THE TECH



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November 10, 1967

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Front page photo of Kresge Auditorium by Brad Williamson

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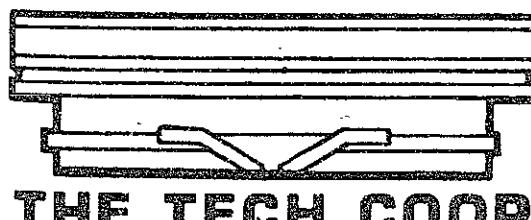
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\$135 million within decade

President's report cites needs

(Continued from Page 1)

Johnson does not ignore the MIT commitment to the undergraduate education. He says, "the undergraduates give the Institute a continuous cycle of new strength and vigor. They give us a wholeness and an integration that we would not achieve were we to concentrate mainly on the graduate side." We seek, he continues, "to create a productive intellectual community of students, one in which they have responsibility as well as amenity."

Building the humanities

President Johnson states that "MIT will continue to strengthen the humanities and arts, recognizing their importance, within the context of a liberal university based on science, not only in providing a broader framework for understanding and directing the goals of science, but also in and of themselves."

"A fundamental purpose of the university," continues the President, "is to generate new knowledge and new ideas. MIT in a world dominated by technology can be regarded as a prime contributor in this regard. A second function is to evaluate and measure the progress of the world in

Lists of companies to be interviewing for full time or summer help are now available in the Placement Bureau (room 455 of the Ford Building) from Monday through Friday, Nov. 17. Listings are sent to all living groups and all departments, in addition to being available in the Placement Bureau. Those seeking interviews are urged to sign-up in the Placement Bureau early to insure an appointment.

the light of history—in short, to criticize it. For if the university does not criticize, what social instrument will?"

President Johnson also discusses MIT's commitment to "re-

search and improvement in the processes of teaching and learning." He states that "in every part of this university, one can observe a vigorous effort at improving the teaching process."

Irving Sasso withdrawn from UMOC contest

By Greg Bernhardt

The number of candidates in APO's "Ugly Man on Campus" contest was reduced to five when one of the candidates turned out to be fictitious. Candidate Irving G. Sasso was fabricated by Alan Goldberg '69, from Burton, and John Loewenstein '69, also from Burton. Wednesday The Tech received the following letter of explanation:

To the Editor:

Through an unfortunate oversight, a photograph of Mr. Irving G. Sasso appeared in THE TECH in conjunction with the article concerning the APO UMOC contest. In addition, a paragraph purporting to describe Mr. Sasso somehow found its way onto the page.

This situation is deplorable, since Mr. Sasso is indeed a handsome and debonair chap.

Deep and humble apologies are due to him.

Sorry, Irving baby.

John Loewenstein '69

Innocent victim

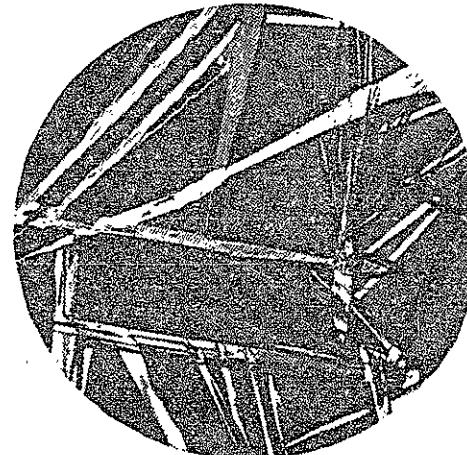
The picture which appeared was actually that of Robin Kelmenson '69, of Burton. Goldberg '70 and Loewenstein were developing the pictures of the UMOC candidates along with others when a representative of The Tech came in for them. The representative, seeing the pictures, inquired if the one of Kelmenson was a UMOC photo. Seizing the opportunity for a good hack, Goldberg and Loewenstein submitted the picture.

Bogus application

They then made up the fictitious application blank. This act was in violation of the APO rules for UMOC which state, "All candidates will be required to sign a disclaimer before campaigning." Goldberg is a member of APO.

As a result, Kelmenson has offered to submit pictures of the real Irving G. Sasso.

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How about you? Think about the engineering variety and sophistication required to produce the complex molecules used for pharmaceutical products. Think about the good use these products are put to.

Then see your Merck Representative on campus.

Dick Klophaus, by the way, now supervises production of Vitamin C, Vitamin K, and various sulfa products. His responsibilities, and those of other young Ch.E.s, are described in our new booklet, *Merck: an engineer's company*. You'll not only learn from this booklet—you'll actually enjoy reading it. Pick up a copy at your Placement Office, or write: Manager College Relations.



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Avant-garde jazz

Solar Arkestra plays

This weekend Sun Ra and his Myth-Science Arkestra will perform at the Boston Tea Party. The performance of this jazz group marks an interesting departure in policy for a light-show dance in this area.

Those who listen to the New Music on WTBS will be familiar with the music of Sun Ra, who has records out on ESP-Disk (You Never Heard Such Sounds In Your Life), and his own label, Saturn Records. Sun Ra is in many ways the Duke Ellington of the avant-garde, using from eight to twelve men regularly in his ensemble, which plays weekly at Slug's Saloon in New York, Hall.

and augmenting the band to achieve spectacular outdoor concerts as part of New York's Summer Festival in Central Park

His music, unlike much of the avant-garde, contains long passages of quiet introspective musings as well as moments of wild black fury. The group contains some of the best jazz musicians in New

York who frequently go unheralded as sidemen on studio dates for major record labels. The Tea Party deserves congratulations for bringing in such an important musical group. Tickets are available at TCA and the Hallucinations, Boston's best blues beat group will be on hand for the dance.

Talking Rock

By Steve Grant

In WRKO's list of the all-time top 300, the groups with the most entries were:

1. Beatles (19)
2. Beach Boys (12)
3. Rolling Stones (11)
4. Supremes (7)
5. (tie) Monkees (6)
- Four Seasons (6)

These six groups contributed over 20% of the top 300.

The Beatles and the Rolling Stones now form what is essentially a nine-man group with two names. They are all friends and contribute heavily to each other's records: the Beatles are among

the backup musicians on "We Love You," and Mick Jagger sat in on the sessions of "All You Need Is Love." In fact, both groups will probably leave their respective record labels as soon as their contracts expire. The Beatles have only to record the soundtrack of "Shades of a Personality" (their next movie, to be directed by Michelangelo Antonioni of "Blow-Up" fame) for Capitol and they will be free to record for someone else. The two groups have discussed the formation of their own label, such as the Beach Boys' Brother Records and, in the 1940's, Frank Sinatra's Reprise. With the numerous lawsuits pending involving the various Stones, it isn't clear how much they are obligated to London, although there is really nothing to keep them from just breaking their contract, the way the Beach Boys did with Capitol. This is all, however, largely speculation.

"Not Fade Away" was their second American single, but is more popular now than it was then. They had better luck with "Time Is on My Side" and "It's All Over Now," which were their first hits of any real proportions in the US. In Britain a five-minute version of the rhythm-and-blues standard "Everybody Needs Somebody to Love" established them as Britain's number two group.

Original songs follow

Up until this point, the Stones had acquired their success through other people's material. Since then however, all their singles have been written by Mick Jagger and Keith Richard. Not surprisingly, it has been these originals that have established them as stars second only to the Beatles. The rock classic "Satisfaction" is probably MIT's favorite single of all time. It may have been the first rock single in which the words had any sort of real meaning. (An "all-time" feature will be included in the third annual Talking Rock poll, to be held January 8-12, if interest is sufficient.)

Recent developments

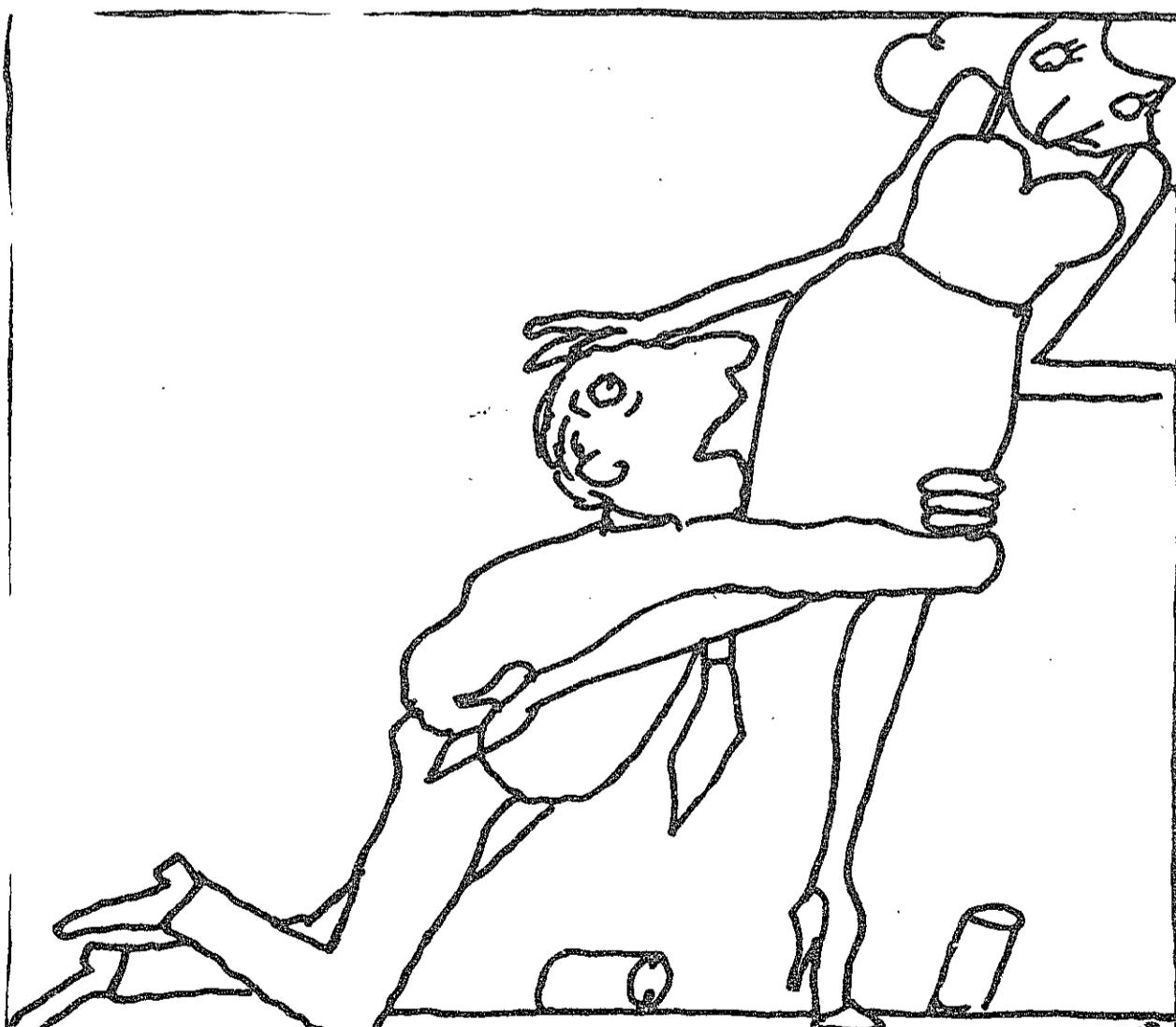
After "Dandelion" failed to reach the national top ten, the group fired producer Andrew Loog Oldham. They will now follow the precedent of the Young Rascals and Beach Boys and simply decide for themselves what to do in the studio.

According to the October issue of Crawdaddy, "Mick Jagger wanted to record the Stones, the Beatles, and Allen Ginsberg singing 'Hare Krishna' for the next Rolling Stones album." This comic bit of musical approach will not materialize, although whatever the Stones do is bound to be of interest and importance musically. With Brian Jones in jail, and Jagger and Richard on probation, for drug offenses, though, any future developments are likely to be slow.

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Local government leaders explore Back Bay's community relations

By Mike Mihalka

Community relations in the Back Bay—this was the topic of discussion held at a Kappa Sigma dinner Wednesday night. The guests included the state senator from the district, Oliver Ames, as well as three state representatives, Maurice Frye, Katherine Kane, and John Sears, late of Boston mayoralty primaries.

After dinner Senator Ames remarked that the problems in Back Bay were complex, probably due to the unique socio-economic

makeup of the area. Back Bay has garnered, deservedly perhaps, the reputation of being another Bourbon Street or New Sky Square. A graphic manifestation of this phenomena is the noise and illegal parking, a problem to be

Kane discusses problems Frye emphasized that as private property owners and taxpayers, the fraternities had a real stake in Back Bay relations. With this in mind, he suggested that with Mayor Collins joining the faculty, students at the Institute would be granted on a local, practical level, realistic insight into such problems as Back Bay breeds.

Sears wraps up evening Rep. Sears wrapped up the evening on a light note, quipping that little old ladies certainly didn't appreciate persons being put in a bag and thrown into Charles River. He met with general approval when he suggested that students at MIT weren't having enough fun, but when they do they should go about it in a "MIT scientific, intelligent way." But more sobering was the information that in the last 10 years the number of students in the Back Bay had risen from 3,000 to 13,000, now equaling the number of "normal" people in the district.

Ogilvie chairs conference on new electron microscope

By Howard Kay

A recent conference of Japanese and American scientists, sponsored by the NSF, studied the development of a new electron microscope and indicated that Japan is far ahead of the US in the use of high energy electron microscopy.

The scientists studied the problems involved in operating the microscope. It is 10 to 15 times stronger than previous models and is capable to resolution which will approach one Angstrom.

Chairman of the conference

Reading of new play by Professor Gurney

The MIT Community Players will hold a meeting Wednesday, at the MIT faculty club. Preceding the meeting at 8 pm. will be cocktails at 6 and dinner at 7. Reservations for dinner may be obtained from Kathy Farrington, x2901.

Entertainment for the evening includes the first reading of an original play by Prof. Gurney of the MIT Humanities department entitled "The Open Meeting."

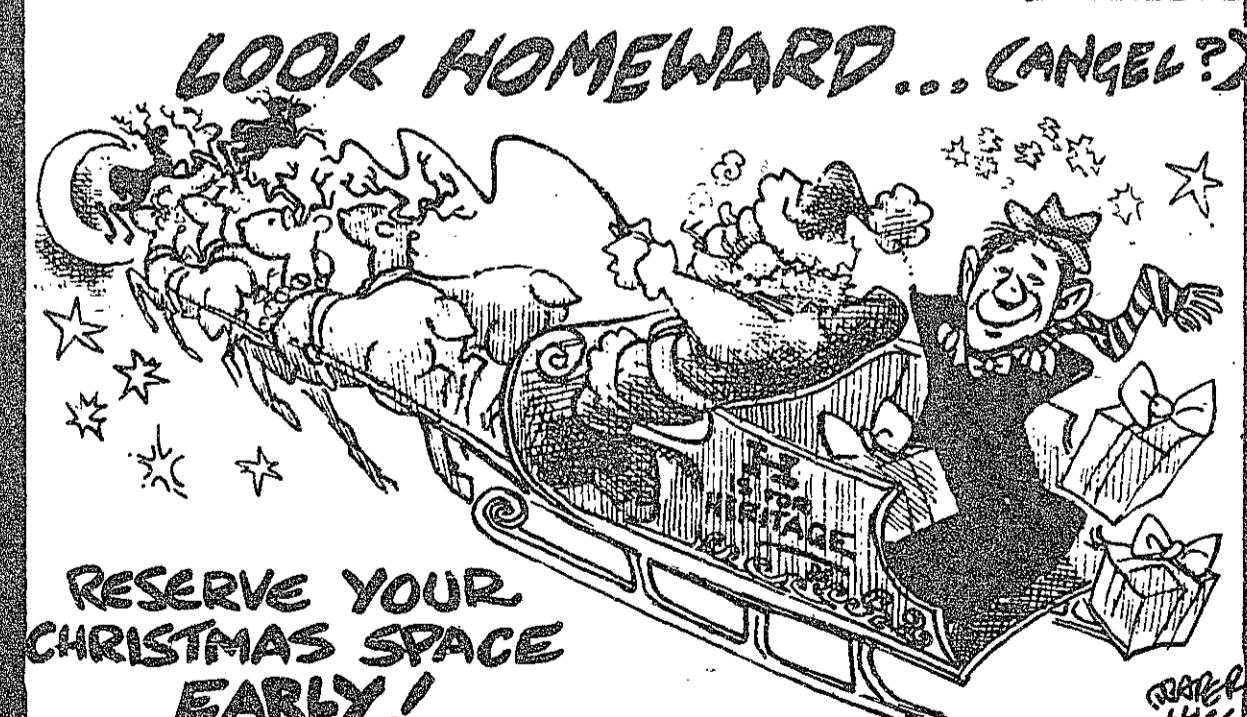
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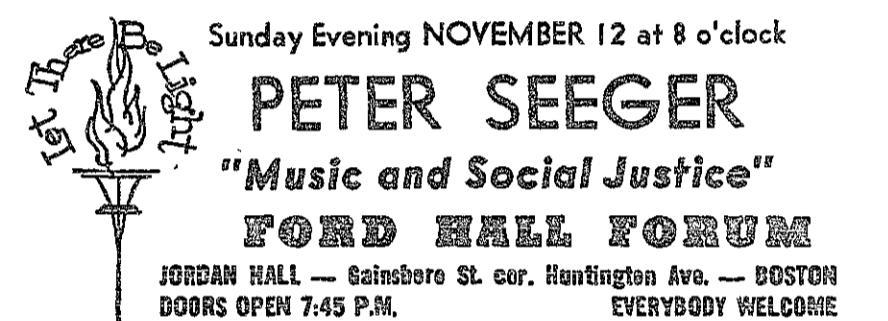
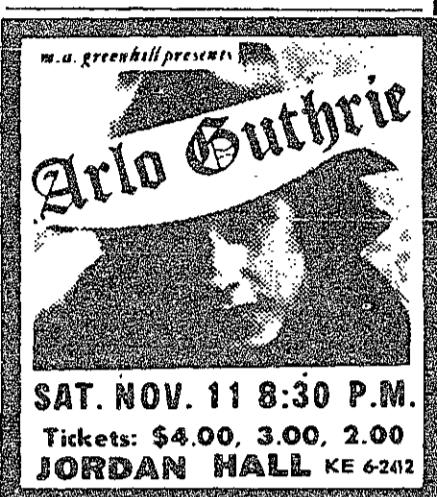
Twentieth century music performed as concert band gives fall concert

The MIT concert band will present its fall concert this Saturday evening, at 8:30 pm, in Kresge Auditorium. Tickets are being distributed free in the building 10 lobby through Nov. 10. Tickets will be \$1 at the door.

This concert marks an excellent opportunity to hear twentieth century music at MIT. Rehearsals have been marked by unusual flexibility in the band, adapting to the new material.

The program for the evening begins with "Proclamation" by Charles Carter. Two marches by Milhaud precede Kroeger's "Variations on a Hymn by William Billings."

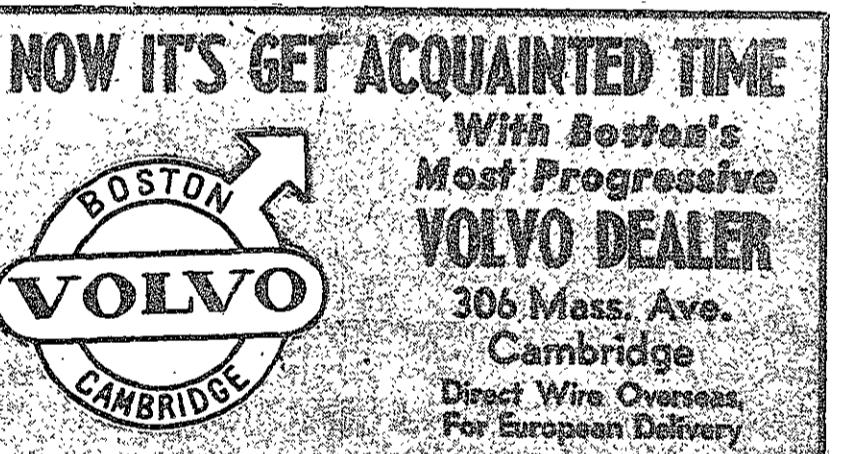
Following the intermission Stravinsky's "Circus Polka" and three pieces for a band by Edward Miller will be performed. Concluding the evening will be "Symphony No. 3" by Vittorio Giannini.



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All sides represented on napalm issue

(Continued from Page 1)

turned the meeting over to Professor Walter Rosenblith, chairman of the faculty, who served as chairman of the meeting. With a comment on the increasing role of the university in today's society and a warning about how "mean" he would be to enforce the speakers' time limit, Prof. Rosenblith turned the microphone over to Prof. Eden.

Moral responsibility, the need for open discussion, and reason were the themes of Prof. Eden's remarks. He maintained that our universities and industrial concerns have a moral responsibility in this war of which they are not sufficiently aware. He also emphasized that while he feels that the war is wrong, he is a believer in reason and open discussion. More debate and discussion are needed if we are to resolve this problem.

Dow man speaks

Following Prof. Eden was Key, who began by telling the audience about Dow's operations. Regarding the napalm issue, Key stated that within the Dow management there are differing opinions on the war, as in all segments of society. However, Dow as a business is not equipped to determine moral issues; Dow is equipped to supply chemicals. Therefore, Dow can and will supply the government with napalm if the government wants it.

The decision regarding the morality of napalm and the war, he said, belongs to the voters and the government; hence, any protests against the use of napalm should be directed toward the government.

Effective weapon

Clinical accuracy characterized the presentation of the next speaker, Dr. Ervin. Although he spoke from a medical (as opposed to moral or political) viewpoint, it was obvious that Dr. Ervin's explanation of how the recent improvements in napalm have helped it burn more deeply into the flesh aroused strong emotional reactions among the audience. Napalm "B", the type used in Vietnam, is based on polystyrene, which makes it stickier than previous types, and contains white phosphorous, which ignites when exposed to air, thus making it virtually impossible to extinguish.

Turning to the military aspects of the use of napalm, Dr. Ervin noted that it is considered a par-

ticularly effective weapon because fire, unlike the blast from high explosives, is self-propagating, more destructive, and more frightening. During World War II, fires attributed to napalm destroyed 35 times as much of Japan's industrial land as did the atomic blasts. By virtue of the relatively indiscriminate nature of the effects of napalm, Dr. Ervin concluded, it is more likely to cause unnecessary civilian casualties and therefore the use of napalm is a moral issue separate from that of the war itself.

Strong support for the continuation of the war came from Prof. Ithiel Pool, head of the Depart-



Photo by Bill Ingram

Professor Murray Eden speaks at convocation on napalm Monday afternoon.

ment of Political Science. Based on his lengthy visits in South Vietnam, Prof. Pool painted a picture of villagers living in constant fear whose freedom is a worthy goal for our nation. Regarding napalm, Pool commented that the people fear artillery far more than napalm, and added that it would be desirable to have better figures on civilian casualties in order to determine how severe the problem really is. While respecting anti-war positions, Pool firmly stated that his own view is that we are right to be in Vietnam, and that we should be careful in choosing which methods of war we will use.

Morrison speaks

The final speaker before the question period was Professor

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Philip Morrison. Prof. Morrison, who worked on the Manhattan Project during World War II, presented his view that the war must be discussed in human as well as strategic terms. Due to the fact that responsibility is so diffused in our society, it is all the more important for individuals to stand up and draw a line against total war. Following his closing, emotion-laden argument that the war has lost its rationality and that our actual aims are not our stated aims, Prof. Morrison received a standing ovation from about half of the audience.

In the question period that followed, Key was asked whether he would have built gas chambers for Hitler had he been a German industrialist. Key replied that he was an American, not a German. Furthermore, once the decision has been made to fight the war, we must support our troops; the decision whether or not to fight the war is the important one, not whether or not to use napalm. Concerning Dow's profit from napalm, Key said that Dow produced napalm only because the country needs it; it accounts for less than half of one per cent of Dow's business.

Methods separate issue

When questioned on civilian casualties in the North, Prof. Pool said that he hadn't been to the north, but that he believed that the war itself was right though the methods used constitute a separate issue.

Professor Eden told The Tech that he would have been happy had 400 or 500 students come to the meeting; he was absolutely amazed at the crowd, which the Campus Patrol estimated at 2500. Prof. Eden's explanation was that "The tragedy of the war has now become sufficiently apparent that everybody who's got an ounce of humanity in him is concerned."

He also emphasized that the meeting was sponsored by the admittedly partisan ad hoc committee, not the administration; the administration has taken no position on the issue other than that of encouraging debate and discussion through co-operating with

the committee in its efforts to organize Monday's meeting.

He added that the meeting could represent a new direction for MIT, in which the old image of apathy toward problems of the day will be erased. Hopefully, Monday's discussion will be but the first of a long series.

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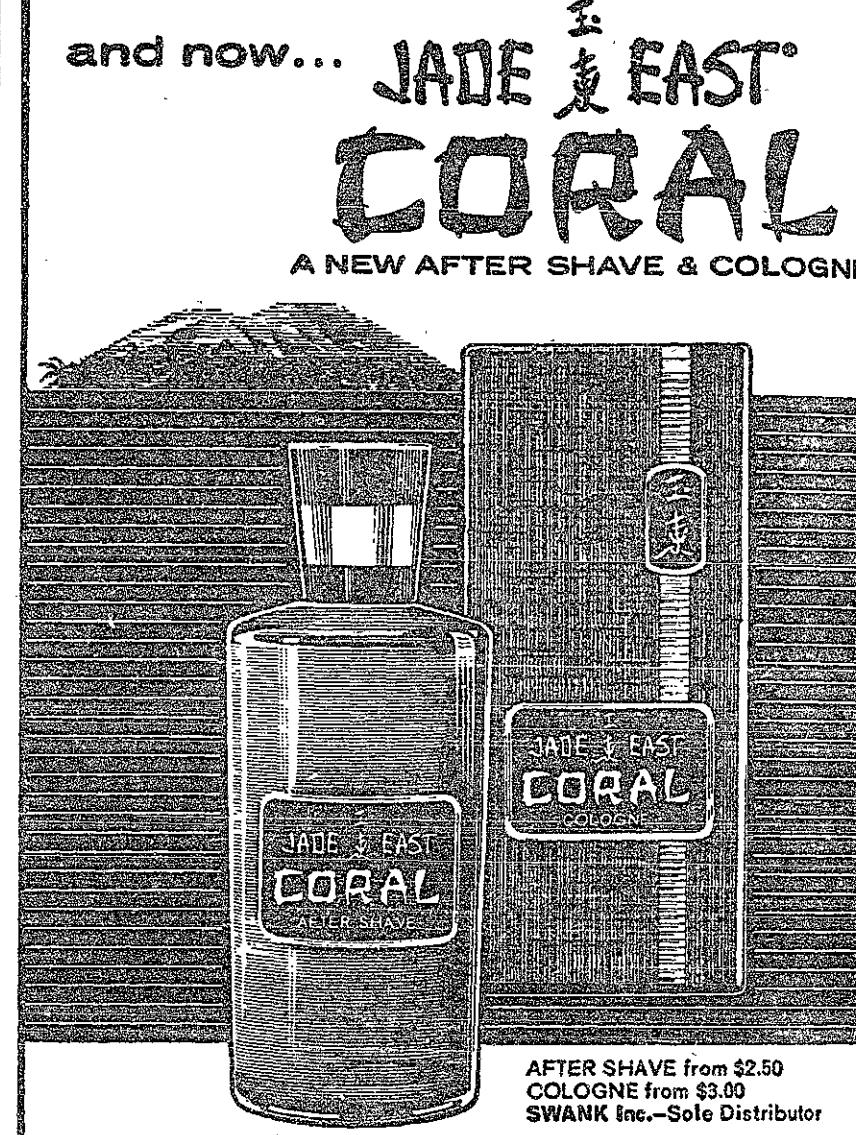
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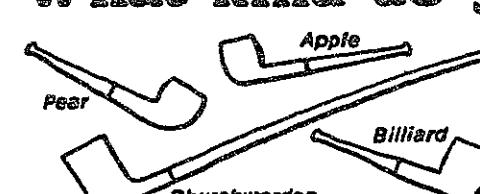
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Lang cites Stephan Smale case

(Continued from Page 1)

written entitled "The Failure of University Administrators." In it he detailed failures in the form

of secret projects and other agreements with the government.

The Smale case

Professor Lang related the case of Stephen Smale, a professor of mathematics at the University of California at Berkeley. Smale was at times active in political affairs, including participation on the Vietnam Day Committee. Smale went to Moscow in the summer of 1966 to receive the Fields Medal, mathematics' highest honor, and to give a major address to the International Congress of Mathematicians, which was meeting there that year.

Criticized by press

At that time the House Committee on Un-American Activities decided to subpoena him because of his political activism. When the subpoena could not be delivered to him in Europe, the San Francisco Examiner ran a story with this headline: "UC PROF. DODGES SUBPOENA,

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SKIPS U.S. FOR MOSCOW." On certain type of accounting which, this occasion, said Lang, "the when applied to the universities Chancellor's office did nothing better than issue a statement that 'no students have been subpoenaed' in response to various enquiries."

Later the Public Information Office released an article on Smale's prize. This led Lang to ask, "How did the Chancellor's office know who had been or had not been subpoenaed unless it was itself a party to the breaking of rules concerning the release of names?"

Student records subpoenaed

The Berkeley administration, Lang explained, also complied with HUAC, which subpoenaed students' records.

Trouble again faced Smale, when the National Science Foundation was pressured into withdrawing its grant to Smale until the terms could be studied further, mainly in light of his political activities. The university failed to fight for him, and by their default, a group of other mathematicians and scientists had to step in.

Effort reports

Another area of administrative failure, in Lang's opinion, is the reporting of effort expended by professors who are underwritten with government funds. Although Prof. Lang does not argue the fact that professors and universities should be paid accountable for the government money they spend, he questions the necessity of the types of effort reports that are required. He expressed his position as follows: "There is a

He fears that professors will have to begin to step in where administrations fail, whether the professors like it or not. "It seems as if the professors," he wrote in his leaflet, "will have to provide a firmer base from which the administrators can draw greater strength to deal with the pressures (financial, social, and political) which have arisen so violently during the past ten years."

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Lang said he feels that the professors' academic roles may suffer a while, but the intervention is necessary. But he still regards teaching students and proving theorems as the major functions of his life.

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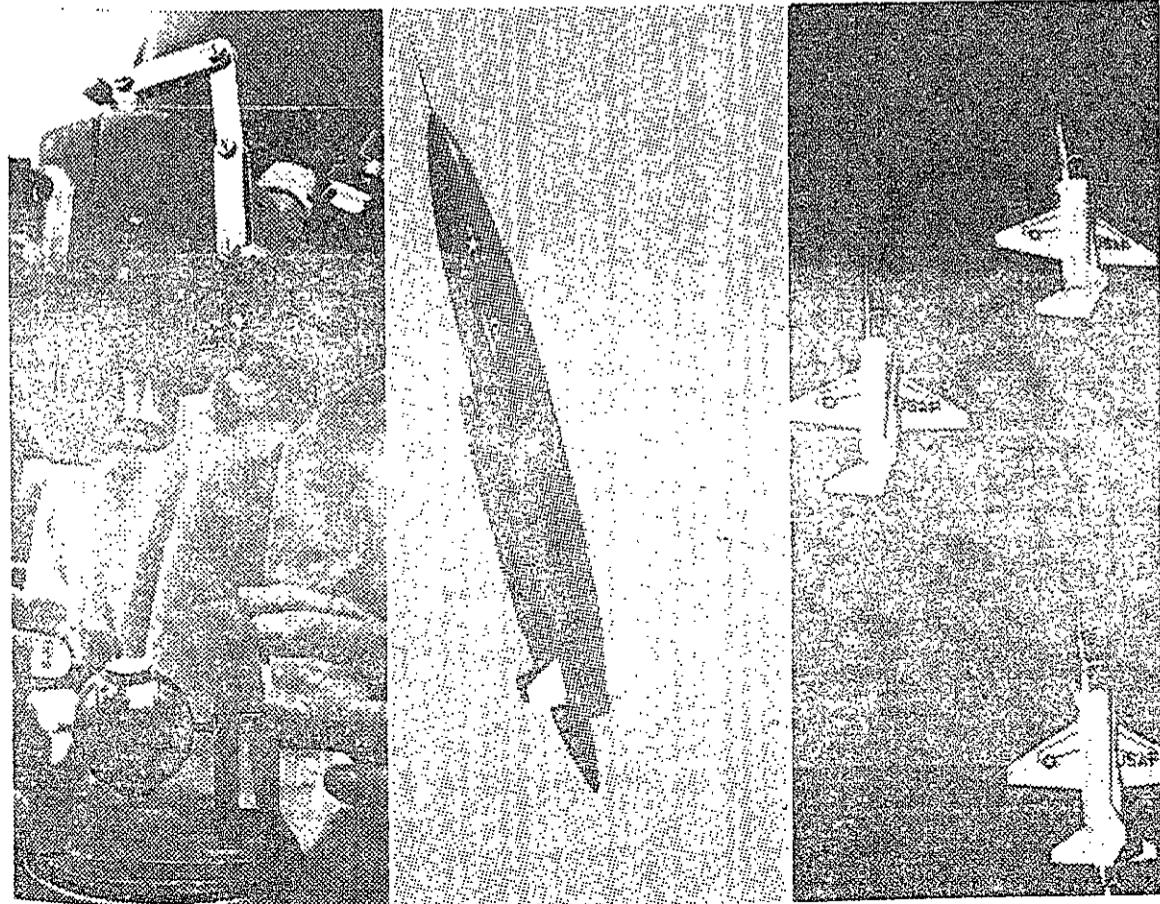
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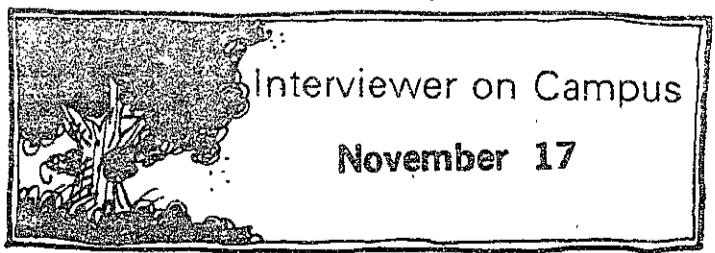
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Views on student-taught high school given by Johnson, Zacharias, Lettvin

(Continued from Page 1)

to the present established patterns in education and not stand apart from reality. Despite the great turnover in the teaching staff, continuity would have to be maintained. President Johnson was convinced that if the idea were good enough, the money could be generated.

Involvement of Faculty

Professor Jerrold R. Zacharias, Department of Physics, was the next impromptu speaker. He stressed the need for the immediate involvement of MIT Faculty, noting that it wasn't right to plan something and then bring people in at the last minute. He felt the Faculty would provide the continuity necessary to the school because "they are here, they stay here, and they are paid to stay here."

Doctor Jerome Y. Lettvin, Departments of Biology and Electrical Engineering, then considered some of the aspects that he was concerned about. From his association with some drop-outs, he noticed the lack of ideals in the Cambridge schools and the lack of realistic goals for the student to work toward.

Trust a concern

He said that the fact that these students trust younger people



Photo by Dave Pack

The prospect of teaching at "MIT High" brought 250 people to the meeting Tuesday evening at which the high school committee was formally organized.

more than they do adults is a great factor in favor of the student-run high school.

In answer to the question of whether MIT students would be qualified to handle teaching assignments, he said, "It's not unusual for a faculty member at

MIT to teach a course if only to learn it. In teaching a course you learn more than by taking it."

The committee said that its next step was the submission of a proposal to the administration stating their aims and methods, and a timetable and budget of their operations. They hope to begin classes in September, 1969.

A suggestion box has been placed in the Inscomm Office (W20-401) in the hope that students will place their ideas and criticisms in it for the committee. Information is available from any member of the committee. Richard Adelstein, Bill Carlson '68, and Jerry Grochow '68 may be reached at Baker House, Dave Peterson '68 at PDT, and Mark Spitzer '68 at SAE.

Live jug band performs in Twenty Chimneys

Anybody dining in the Twenty Chimneys restaurant late Wednesday night found himself receiving the unexpected treat of a real, live jug band. The band, which was composed of 11 musicians (usually 11, there was variation as people left for meals and snacks) was performing around midnight with a variety of instruments, mostly homemade.

These instruments included a glass of water, a washboard, spoons used like drumsticks on the table), more spoons (in pairs,

much like castanets), a jug (unfortunately, not the old-fashioned kind, but a new-fangled, plastic Lestoil bottle), a kazoo, and a guitar.

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Tech riflemen top Harvard by 35

The Tech varsity riflemen won their season's first match over Harvard by the substantial margin of 35 points on Monday. Tuck of Harvard took the high score of the match with a 270 out of a possible 300, but the Harvard team lacked the depth to back their high man.

The engineer captain, Dennis Artman '68, led his team with a 260, and was followed closely by his teammates, Carl Lamson '69 with 258, Tom Stellinger '70 with 256, Dick Evans '70 with 252, and Scott Holden '71 with 247. Coach Tom McLennan was pleased with the performance of this year's young team. If the team can maintain this fine start it will have a good shot at the Greater Boston Collegiate Rifle League title. The team's next match is today against Northeastern.

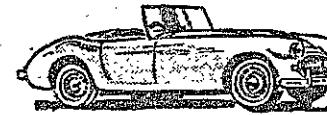
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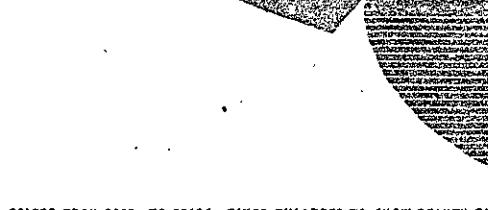
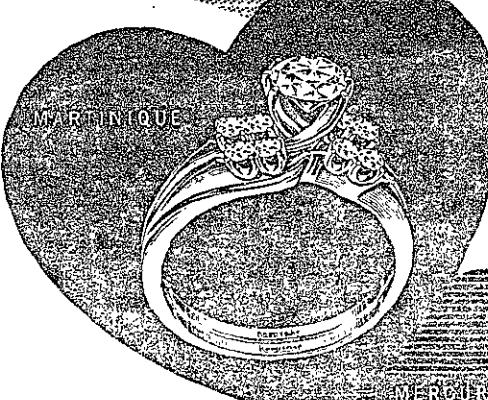
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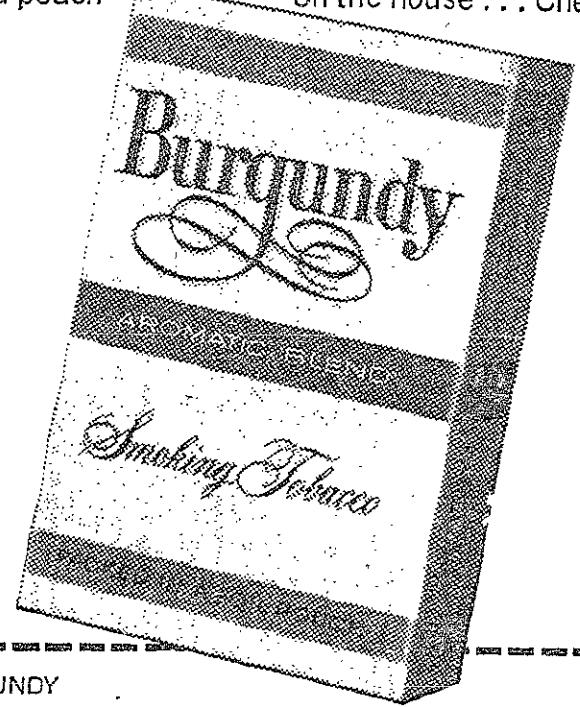
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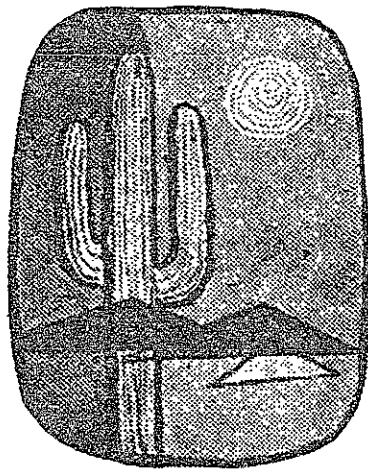
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Controlled by Project Intrex

Library to use computers

(ED. NOTE: This is the second in a series of articles on the MIT library system.)

By Robert Dennis

Project Intrex is a program of "information transfer experiments" directed toward the functional design of new library services that might become operable at MIT and elsewhere by 1975.

Under the leadership of Professor Carl F. J. Overhage and in conjunction with Project MAC and the Electronic Systems Laboratory, the project has been established with the two-fold objective of finding long-term solutions for the operational problems of large libraries and of developing competence in the emerging field of information transfer engineering.

Groundwork of project

The basic groundwork for Project Intrex was laid at MIT at a planning conference attended by a large number of experts in the library functions, computer technology, and related fields. The meeting drew up a broad program which would encompass three basic goals: 1) the modernization of current library procedures through the application of technical advances in data processing, textual storage, and reproduction; 2) the growth, largely under Federal sponsorship, of a national network of libraries and other information centers; 3) the extension of the rapidly developing technology of online, interactive computer communities into the domain of the libraries and other information centers.

It is hoped that enough experimental results and experience with a model system will be obtained by 1970 to afford a commitment of funds for the actual development and installation by 1975.

The current research is being financed by the Carnegie Corpo-

ration, the National Science Foundation, the Advanced Research Projects Agency of the Department of Defense, and the Council on Library Resources, Inc. Some of the major projects now underway are discussed below.

Current research

The model library — In order to cope with the real, everyday problems of setting up a pilot system in which the experience required to evaluate the experiments may be gained, construction has been recently begun on a model library which will be coordinated with the fifth floor Engineering Library.

Mechanization of current procedures — The model library will be used to test the capabilities of an online computer system for solving such problems as the selection, acquisition, and weeding of materials and the control of serials.

Augmented catalog experiment — The computer system will facilitate the augmentation of the library catalog with respect to content, depth, and connectivity. The catalog will not only contain much more data on the conventional library materials but also include unpublished works such as conference papers, class notes, galley proofs, and correspondence.

This functionally augmented system will provide for more sophisticated bibliographic searches, some forms of browsing experiments, and information concerning the location and an indication as to how a particular item might be physically obtained.

Text access experiment — For the problems of delivering, displaying, or storing requested documents, Project Intrex has been evaluating the merits of various techniques. For storage: print on paper, analog microimages on photographic materials, analog signals on magnetic or possibly

thermoplastic materials; for delivery: transportation for some of the above, electrical transmission for others; for display: direct inspection, xerography, optical projection, oscilloscopic display, etc.

Network integration experiment

Project Intrex is exploring a range of ideas designed to promote the integration of university libraries into the national network of information centers. A major experiment is being considered involving the interaction of a computer-based university information transfer system with the informational resources of such organizations as the National Library of Medicine and NASA.

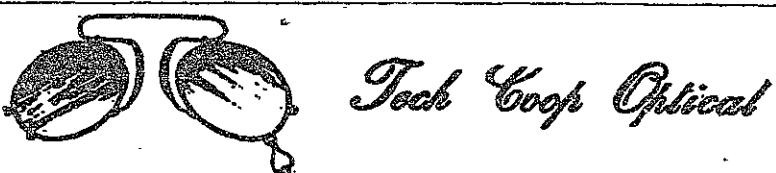
Fact retrieval experiment — This program is designed to achieve computerized "handbooks" and data banks so that the user could "traverse the bewildering forest" of today's available reference materials. Among the advantages of this system will be a constant updating of data, versatile methods of extracting information, and the ready availability of the computer to perform computational operations on the data.

A unifying theory

Related projects include teaching and learning on the online network, planned facilities to encourage browsing, selective dissemination of information, and "publishing" through the system to the online community. Probably the major intellectual challenge for Project Intrex is the development of a unifying theory that will lead to coherent design and interpretation of experiments in information transfer systems.

The day when the goals of Project Intrex become reality will certainly be one of the proudest days in MIT's long history of achievement. Indeed, Professor Overhage's view of the project seems not far removed from science fiction: "Students and scholars will... gain access to the universities' total information resources through 'Touch-tone' telephones, telewriter keyboards, television-like displays, and quickly-made copies.

Data just obtained in the laboratory and comments made by observers will be as easily available as the books in the library or documents in the department files. The information traffic will be controlled by means of a time-shared computer utility on the campus.



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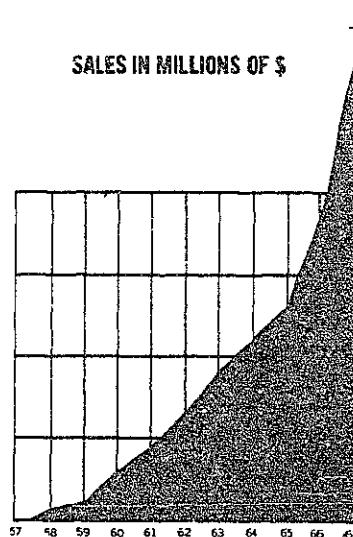


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November 14

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JV's fall to Harvard

Last second goal edges booters

By George Novoselski

"In a game not decided until the final second of play, the . . ." This is one of the most overused phrases in sportswriting today. But last Wednesday the words aptly fitted the action. In their last home game of the season, the varsity booters appeared to have fought to a double overtime tie with Boston U. but, with no time remaining on the scoreboard, an opposing forward kicked in the winning goal to give the visitors a narrow 2-1 triumph.

The match was closely contested throughout, with neither team able to control play for any appreciable length of time. The final statistics showed both squads even in every department, save that of "goals scored."

The dramatic finish helped Boston U avenge both last season's 1-0 loss to MIT and a pre-season scrimmage defeat. The Tech team that lost to the Terriers Wednesday bore little resemblance to the winning pre-season squad. Of the 13 lettermen that started the year only five saw action in the latest match.

Three periods scoreless

The game itself was scoreless for three periods. BU broke the ice to take the lead after 40 seconds of the final quarter. The kickers sent the match into overtime when Stan Sheppard '70 banged in a loose ball in front of the goal.

The defeat was Tech's ninth straight and dropped its season slate to 0-4 in league play and 2-10 overall. The booters travel to Connecticut tomorrow for their final game of the season. U Conn defeated Tech 6-1 last year and appears to have the stronger squad again this season.

Freshman hockey begins Tuesday

A meeting will be held Tuesday in the duPont lobby for all athletes interested in freshman hockey. Anyone with skating experience, however slight, is encouraged to attend this 5:15 pm meeting.

Since the freshman team has traditionally boasted players who have participated in little or no organized hockey, no one should be discouraged because of a lack of experience.

This year, the team is looking for an uplift from its dismal 0-4 record last season. New freshman coach Dennis McLaughlin is himself a fine hockey player and has been named to the Junior "A" All-Star hockey team from Canada. The outdoor rink is scheduled to be ready for skating by next Thursday, and Coach McLaughlin hopes to get practice started immediately.

Intramural sports

Badminton nears finals



Photo by Steve Gretter

Action proceeds in an IM badminton match in the Armory. The playoffs are now in the quarterfinal round.



Photo by Dave Simansky

Julius Gutman '68 (#16) moves to dribble around a BU forward in Wednesday's contest. The booters dropped the game in double overtime.

Harvard tramples Jayvees

The JV's closed out their season on a losing note as they were battered by Harvard 8-3 last Tuesday. The Crimson took control of the game from the start, even though the score stayed close for the first two periods.

Harvard led 2-1 at the half, but starting halfway through the third period tallied four straight goals to put the game away. Erhan Acar '68, Jeff Reynolds '69 and George Busby '68 booted in the Tech scores in a losing effort.

IM Council holds meeting; new constitution approved

At the Intramural Council meeting Tuesday, that body voted unanimously to institute a revised constitution. Major changes were to limit each sport to one vote on the Council and the establishment of conditional sports as non-voting.

Intramural wrestling will be held the weekend of November 17. Manager Walt Price '70 announced that questionnaires had been enclosed with the rosters to determine the nature of the AAU Olympic Style wrestling.

Sticks available

Hockey manager Pete Peckarsky '68 has made arrangements to purchase hockey sticks for \$21 per dozen. Houses interested in

buying them should place orders soon with him.

Joel Hermelstein '70 announced the projected beginning of the basketball season as November 27. This year, referees will be provided by teams as well as independent individuals, with each house being required to supply one official.

Old business

The initial item of old business was a motion by Peckarsky that would, if passed, have allowed any undefeated team to place first in the sport. After debate, this was defeated because it was felt that this would provide incentives for good teams to drop into lower leagues in order to improve their chances of placing first.

Herb Finger '68 brought up a motion to demand personal contact between house athletic chair-

How They Did

Soccer

BU 2, MIT (V) 1
Harvard 8, MIT (JV) 3
MIT (F) 5, Stonehill 3
Rifle

MIT (V) 1272, Harvard 1238
Pistol

MIT (V) 1118, Arlington 1099

Rosters for all living groups interested in entering teams in the Intramural Hockey tournament are due by 5 pm today in the Athletic Association office or the IM hockey mailbox.

In addition, referees are still needed at the rate of \$2.50 per game. Anyone interested should contact manager Pete Peckarsky '68.

Wrestlers have combination of youth and experience

By Art Varteressian

A young but competent lineup will form the bulk of the approaching season's wrestling team for the engineers this year. Three New England champs from last year's frosh team, coupled with three third-place winners, should beef up the grapplers potential for a winning season.

Two lettermen lost

Only two varsity letter-winners have been lost from the team this year through graduation. Last year's heavyweight New England champion, Dave Schramm '67, left a vacancy which will be filled by Fred Andree '70, himself a New England champ and undefeated in frosh competition last year. The spot vacated by Hank De Jong '67 at 167 pounds has been plugged by the presence of yet another frosh New England champ, Walt Price '70. In the

On Deck

Today

Cross Country (V)—Bates, Colby, away, 3 pm

Tomorrow

Soccer (V)—Connecticut, away, 2:30 pm

Soccer (F)—Connecticut, home, 2 pm

Rifle (V)—Providence, home, 1 pm

lighter weights, Tech boasts captain Bill Harris '68, the only senior on the starting team. Bill captured second place last year in the New Englands at 123 pounds. Also in the lighter weight spots will be Steve Latimer '70, a third place winner in last year's frosh NE championships, Paul McCrea '70, undefeated in dual match competition last year, and Gregg Erickson '69.

At 137 and 145, Tech will have a choice between Dean Whalen '70, another third-place finisher last year, Regan Fay '70, Jack Maxham '69, a letter-winner from last season, and Jack Wu '68, a returning senior with an impressive dual meet record. The middle weight classes have been strengthened by the return of Norm Hawkins '68. Though he was unable to wrestle in 1967, "The Hawk" boasts impressive credentials: he placed first in his weight class in the New England Championships of 1965, and he took a third as a sophomore the following season. Along with Hawkins will be Rick Willoughby '70, reigning frosh New England champ at 152 pounds.

The team has a choice between Joel Mosher and Dave Alperin, two of last year's frosh stars, at 177 pounds. Though he is presently sidelined by injuries, Julie Schroeder '69 is expected to be able to wrestle soon at 191 pounds.

Heavy schedule

Though short on experience, the new varsity is long on talent, and head coach Wil Chassey can look forward to a very successful season. The '67-'68 season will be one of the roughest and longest in history, with 16 difficult meets scheduled, but the team seems capable of handling itself well.

fresh sports

Kickers beat Stonehill, 5-3; second half drive decisive

By Scott Ramos

Showing an extremely strong will to win, the engineer soccermen forged ahead of Stonehill in the final half, and brought home a 5-3 win Tuesday.

Second team starts

A previously non-producing offense convinced Coach Schuhwerk that he should put in the second string. But Stonehill's Contant, the inside right, found a weakness in the squad as he pushed in two goals from close in. But it was not only the backup crew who showed a weakness, for Keller booted one in against the starting squad with slightly under 2 minutes remaining in the first half.

Tech scores five

Tech came to life in the second half, however, as the players realized that their job was cut out for them. Less than five minutes of hard play had gone by when the engineers got their big chance to get back into the game.

Gerry Maskiewicz took a penalty kick for pushing and made it good. Seven minutes later Maskiewicz dribbled around and through the defense and smoked one in from the right side.

Kenny Lord next got a chance at a goal three minutes later, but instead passed it off to John Bunce, who footed in the score. The third quarter ended in a 3-3 draw, but things looked promising as the Techmen showed high spirits and a hungry desire.

Maskiewicz gets third

With 12:22 remaining in the final quarter Maskiewicz com-

pleted his hat-trick when he booted one into the nets after again driving in almost alone. A little later, the ball was again in front of the opponent's goal. Scott Holden received a short pass across the mouth of the goal and pushed in the final point of the game.

The squad displayed its best offensive attack throughout the whole season in taking the win. Excellent teamwork and a driving spirit gave the team its highest goal production and its fourth win. They host Connecticut this Saturday at 2 pm for their final game of the season.

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The intramural badminton playoffs are now in the quarter finals of the double elimination tournament that will decide both the winner of another IM trophy and the distribution of IM points for this minor sport.

Eight teams are still in the tourney, four in the winners bracket and four in the losers bracket. Burton A advanced to the quarterfinals with a win over TDC B. SAE B beat Baker A to remain in the winners bracket. SAE A topped LCA and TDC A beat TEP to round out the teams in the winning side of the bracket. Burton A will play SAE B and TDC A will go against SAE A Thursday night at 7 pm. The winners of these games will square off on Monday, November 14, at 7 pm.

Last year's winners, Chinese Students Club, are favored to win again this year, even though they are now in the losers bracket. TEP, TDC B, and Baker A are the remaining teams in the losers bracket. Chinese Students play TEP and TDC B goes against Baker A Thursday night at 7 pm.

The finals of the tournament will be held at 2 pm, Sunday, November 19.